



AREA OF EXPERTISE

Forensic Discipline

Seized Drug Analysis

Expert Testimony

Testified 5 times at the Federal level:

- August 5, 2019 at the U.S. District Court of Eastern District of California for United States of America vs. Tommie Thomas
- August 19, 2019 at the U.S. District Court of Utah for United States of America vs. Aaron Michael Shamo
- April 11, 2022 at the U.S. District Court of Northern District of California for United States of America vs. Alejandro Alvarez
- February 22, 2023 at the U.S. Eastern District Court of Washington for United States of America vs. Jose Aguirre-Ruiz
- February 24, 2023 at the U.S. District Court of Colorado for United States of America vs. Thomas O'Hara

PROFESSIONAL EXPERIENCE

DRUG ENFORCEMENT ADMINISTRATION

Forensic Chemist, Western Laboratory, Pleasanton, CA, 2016 - Present

- Analyze physical evidence for the presence or absence of controlled substances.
- Prepare written reports detailing findings of analysis.
- Provide testimony in court as needed.
- Have analyzed approximately 1800 exhibits.

Training

- Basic Forensic Science School (Quantico, VA), 2016
- Maintaining ACQUITY UPLC Systems (Classic, H-Class and I-Class), Waters Corporation (Pleasanton, CA), 2017
- Basic Clandestine Laboratory Certification School, DEA Academy (Quantico, VA), 2018
- NMR Quantitation and Identification (Pleasanton, CA), 2019
- New Analytical Scheme for the Analysis of Cannabis (Pleasanton, CA), 2019
- Illicit Hazardous Environments Specialist (Quantico, VA), 2021
- DEA Clandestine Laboratory Advanced Specialist Course (Quantico, VA), 2021
- Kadima Leadership Training (Quantico, VA), 2021
- Field Training Chemist Professional Development (Quantico, VA), 2021

US DEPARTMENT OF AGRICULTURE

Senior Chemist, USDA (Alameda CA) 2011-2016

- Responsible for testing meats, poultries, fish, and eggs for pesticides and small molecules contamination.
- Performed routine maintenance and performed checks on laboratory equipment.
- Trained Chemists onsite on method development and maintenance of analytical instruments.
- Performed and validated analytical methods.

UNIVERSITY OF THE PACIFIC - AMERICAN CHEMICAL SOCIETY

Teaching Assistant (Stockton, CA) 2004-2011

- Guided and trained scientists in method development, instrumental analysis, data collection and interpretation, and lab safety.
- Trained graduate and undergraduate students in analytical methods development and instruments maintenance.
- Teaching, Experimentation, And Mentoring in Science - Coordinated, planned, and taught sciences to 6-12 grades.

Training

- Mass Spectrometry: Principal and Practice (Stockton, CA 2014-2010).

HILMAR CHEESE AND INGREDIENTS

R&D Chemist (Hilmar, CA) 2009

- Responsible for testing meats, poultries, fish, and eggs for pesticides and small molecules contamination.
- Trained and provided technical supports for the purification and analysis of oligosaccharides and proteins.
- Set up analytical instruments and trained Chemists on application and maintenance.
- Analyzed and mapped protein hydrolysis.

EDUCATION AND CERTIFICATIONS

San Francisco State University, San Francisco CA

- Master of Business Administration, 2017

University of the Pacific, Stockton CA

- Ph.D., Pharmaceutical and Chemical Sciences 2011

University of California, Davis CA

- Bachelors of Science, Biochemistry 2003
- Minor - Statistics 2003

Certification(s)

- DEA Clandestine Laboratory Safety Certification, 2018 to present
- DEA Advanced Site Safety (2021 to present)

PROFESSIONAL AFFILIATIONS

- Alpha Chi Sigma - Professional Chemistry Fraternity
- American Chemical Society (2007-present)

PRESENTATIONS AND LECTURES

- Oral Presenter - Analysis of Pesticide in Meats and Poultry at USDA Western Laboratory
- Agriculture Research Service (Washington, DC), 2012
- Poster Presenter - Analysis of Pesticide in Meats and Poultry at USDA Western Laboratory
- Pesticide Conference (St. Pete, FL) 2013

PUBLICATIONS

- Macrocyclic Chemistry:
Part I - Characterization of a mixed-valence di-iron complex and synthesis of a new poly-iron complex.
Part II - Synthesis, characterization of new diphosphoester macrocyclic polyethers. University of the Pacific
2011. Dissertation.



U.S. Department of Justice
Drug Enforcement Administration
Western Laboratory
6880 Koll Center Parkway
Pleasanton, CA 94566

www.dea.gov

TO: Jennifer Clark
Assistant U. S. Attorney

FROM: Son Xuan Hoang
Senior Forensic Chemist
DEA Western Laboratory

SUBJECT: RULE 16(a)(1)(G) SUMMARY OF TESTIMONY IN
UNITED STATES v. Justin Jose Romo
DEA IA Case Number(s) 2022-SFL7-04516

Date: March 7, 2023

The following summary of testimony is provided as required by Federal Rule of Criminal Procedure 16(a)(1)(G) and is a complete statement of my opinions, which are exclusive to and address only the exhibit(s) identified in this summary:

1. My name is: Son Xuan Hoang
2. I am employed by the U.S. Department of Justice, Drug Enforcement Administration (DEA), in the capacity of Senior Forensic Chemist, and was so employed when I conducted the examinations and analyses described below. My qualifications to conduct the examinations and analyses, and to express an opinion as to the identity of the material contained in the exhibit(s) described below, are based on my knowledge, skill, experience, training, and education. See my attached Curriculum Vitae for additional information regarding my qualifications, including previous testimony offered in the last four years and any publications authored in the last ten years.
3. The opinions described below are based on the following chemical, physical, and instrumental analyses, the results generated by those analyses, and my interpretation of those results set forth in the forthcoming Laboratory Report and analyst notes.

SUBJECT: RULE 16(a)(1)(G) SUMMARY OF TESTIMONY IN
UNITED STATES v. Justin Jose Romo
DEA IA CASE NUMBER(S) 2022-SFL7-04516

The manner and process by which the analyses I performed were done so as articulated in the publicly available Analysis of Drugs Manual (ADM) and Laboratory Operations Manual (LOM), in effect at the time of analysis. These are generally available at:

https://www.dea.gov/resources/documents?f%5B0%5D=publication_type%3A2596, or were otherwise disclosed upon request.

4. I analyzed the material contained in the exhibits which were submitted for analysis in the above referenced case number(s). My conclusions are included as part of forthcoming forensic laboratory reports and analyst notes.
5. The material referred to herein as exhibit #1, as represented in the forensic laboratory reports and accompanying case file, has been identified as follows:
 - a. Substance(s) identified: Methamphetamine Hydrochloride. Methamphetamine confirmed in all units received. A composite was formed from 2 units for further testing. Salt form determined from testing the composite.
 - b. Purity of Methamphetamine: $96\% \pm 6\%$. Purity determined from testing the composite; the purity and amount pure substance values are representative of the entire exhibit. All uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.
 - c. Net weight: $18.6 \text{ g} \pm 0.2 \text{ g}$. The net weight was determined by direct weighing of all unit(s). The net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

The above opinion is based on the following physical, chemical, and instrumental analyses:

- i. Marquis color test
- ii. Capillary gas chromatography coupled with mass spectrometry detection
- iii. Infrared spectroscopy
- iv. UV-Vis Spectroscopy

Pursuant to Fed. R. Crim. P. 16(a)(1)(G)(v), I approve the foregoing disclosure.

SON HOANG Digitally signed by SON HOANG
Date: 2023.03.07 09:05:53 -08'00'

Son X. Hoang, DEA Senior Forensic Chemist

Date: 3/7/2023

SPENCER SINGH Digitally signed by SPENCER SINGH
Date: 2023.03.09 06:25:43 -08'00'

APPROVED:

Spencer Singh, Supervisor Forensic Chemist

SUBJECT: RULE 16(a)(1)(G) SUMMARY OF TESTIMONY IN
UNITED STATES v. Justin Jose Romo
DEA IA CASE NUMBER(S) 2022-SFL7-04516

Attachment



U.S. Department of Justice
Drug Enforcement Administration

Western Laboratory
Pleasanton, CA

Chemical Analysis Report

HSI - Kalispell
2 Main Street, Suite 206
Kalispell, MT 59901

Case Number: 2022332400005101
LIMS Number: 2022-SFL7-04516

Observations, Results and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
1	Methamphetamine Hydrochloride	18.6 g \pm 0.2 g	96% \pm 6%	17.8 g \pm 1.1 g

Remarks:

The net weight was determined by direct weighing of all unit(s). The net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Purity determined from testing the composite; the purity and amount pure substance values are representative of the entire exhibit. All uncertainty values represent expanded uncertainty estimates at the 95% level of confidence.

Exhibit Details:

Date Accepted by Laboratory: 09/06/2022

Gross Weight: 33.4 g

Date Received by Examiner: 11/08/2022

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Wt.
1	2	Plastic Bag	Crystalline	18.0 g

Remarks:

Exhibit Analysis:

Sampling:

Methamphetamine identified in all unit(s) received. A composite was formed from 2 units for further testing. Salt form determined from testing the composite.

Exhibit	Summary of Test(s)
1	Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy, Marquis Color Test
Exhibit	Purity Test(s)
1	DEA 503/UV-Vis Spectroscopy

The terminology used in the preparation of this report is consistent with the current Department of Justice Uniform Language for Testimony and Reports for General Forensic Chemistry and Seized Drug Examinations.

Analyzed By: /S/ Son X. Hoang, Senior Forensic Chemist
Approved By: /S/ Suk I. Fullbright, Senior Forensic Chemist

Date: 11/15/2022
Date: 11/16/2022

Case Details Report

» I.A. Case #: REDACTED / LIMS Case #: 2022-SFL7-04516

Investigating Agency: HSI - Kalispell

of I.A. Exhibits: 1

of Lab Exhibits: 1

Exhibit #	Lab Ex #	Lab Exhibit Description	Container
1	1	2 plastic bags, each plastic bag contained white crystalline substances,	SSEE (2161679)

Summary of Findings Analyst: SXHOANG (2022.11.15)

Findings					
Exhibit	Gross Wt	Net Wt (Reported)	Net Wt	Reserve Wt	Retained Wt
1	33.4 g	18.6 g ± 0.2 g	18.67 g ± 0.24061 g	18.0 g	
Constituent	Purity	APD (Reported)	APD		
Methamphetamine Hydrochloride	96% ± 6%	17.8 g ± 1.1 g	17.856 g ± 1.14429 g		

Gross Weight Equipment : DEA 365215 Analyst: SXHOANG (2022.11.15)

Gross Weight (Reported)	32.5 g
Gross Weight (Actual)	33.4 g
Gross Weight (delta)	0.9 g
Gross Weight (delta %)	2.69 %
Weight Discrepancy	No
Remarks	No Remarks

Description of Evidence Analyst: SXHOANG (2022.11.15)

Seals	Intact
Date Opened	2022-11-08
Description	1 SSEE contained 2 plastic bags (1 contained another plastic bag contained white crystalline substances, and 1 contained white crystalline substances). total 2 units.
Consistent With Paperwork?	Yes
Remarks	No Remarks

Description of Exhibit and Sampling Analyst: SXHOANG (2022.11.15)

Number of Packages	2 unit
Number of Units	2 unit
Package Type	Plastic Bag
Logo/Impression	No
Gross Form	Crystalline
Dry/Moist	Dry
Exemplar	No
Number of Units Tested	2 unit
Sampling Procedure	2 units tested of 2 units received with color test and GC-MS. One independent portion from each unit was used for each technique. All sample from 2 units were combined, ground and passed through a 20-mesh sieve to form a composite for further testing. Salt form determination was performed with FTIR. Quantitation was performed with UV-Vis.
Deviation from Sampling Plan	No
Remarks	No Remarks

Exhibit #	Lab Ex #	Lab Exhibit Description	Container
1	1	2 plastic bags, each plastic bag contained white crystalline substances,	SSEE (2161679)

Net Weight Equipment : DEA 365202		Analyst: SXHOANG (2022.11.15)
Residue	No	
Type of Weighing	Direct Weighing	
Net Weight	18.6 g	
Net Weight Uncertainty	0.2 g	
Remarks	Weighed in new ziplock plastic bags empty to full.	
Use Legacy Calculator	No	

Marquis Color Test : Run # 1 - Set # 1 Blank		Analyst: SXHOANG (2022.11.15)
Negative Control Run	Yes	
Negative Control Result	Pass	
Reagent ID	MARQ-G2-SEPT22	
Remarks	No Remarks	

Marquis Color Test : Run # 1 - Set # 2 Samples 1-2		Analyst: SXHOANG (2022.11.15)
Negative Control Run	No	
Reagent ID	MARQ-G2-SEPT22	
Applicable Units	1-2	
Color	Orange to Brown	
Remarks	No Remarks	

GC-MS Analysis : Run # 1 - Set # 1 Blank Equipment : DEA 365408		Analyst: SXHOANG (2022.11.15)
Negative Control Run	Yes	
Negative Control Type	Instrumental/Solvent	
Negative Control Result	Pass	
Solvent	Base extracted into chloroform.	
Remarks	Baseline and all peaks checked no controlled substances or adulterants found. Passed.	

GC-MS Analysis : Run # 1 - Set # 2 Sample 1 Equipment : DEA 365408		Analyst: SXHOANG (2022.11.15)
Negative Control Run	No	
Sample Weighed	No	
Solvent	Base extracted into chloroform.	
Retention Time Matching	No	
Remarks	Baseline and all peaks checked, no other controlled substances or adulterants found.	

Spectral Result	
Constituent	Comments
Methamphetamine, Isomer & Salt Undetermined	retention time was within +/- 0.1 minute of standard.

Exhibit #	Lab Ex #	Lab Exhibit Description	Container
1	1	2 plastic bags, each plastic bag contained white crystalline substances,	SSEE (2161679)

GC-MS Analysis : Run # 1 - Set # 3 Sample 2

Analyst: SXHOANG (2022.11.15)

Equipment : DEA 365408

Negative Control Run	No
Sample Weighed	No
Solvent	Base extracted into chloroform.
Retention Time Matching	No
Remarks	Baseline and all peaks checked, no other controlled substances or adulterants found.

Spectral Result

Constituent	Comments
Methamphetamine, Isomer & Salt Undetermined	retention time was within +/- 0.1 minute of standard.

GC-MS Analysis : Run # 1 - Set # 4 Standard mix AC-22-03

Analyst: SXHOANG (2022.11.15)

Equipment : DEA 365408

Negative Control Run	No
Sample Weighed	No
Solvent	Base extracted into dichloromethane.
Retention Time Matching	No
Remarks	No Remarks

Spectral Result

Constituent	Comments
Methamphetamine, Isomer & Salt Undetermined	---

FTIR Analysis : Run # 1 - Set # 1 Composite blank

Analyst: SXHOANG (2022.11.15)

Equipment : DEA 41321A

Negative Control Run	Yes
Background	Pass
Negative Control Type	Instrumental
Negative Control Result	Pass
Remarks	No Remarks

FTIR Analysis : Run # 1 - Set # 2 Composite sample

Analyst: SXHOANG (2022.11.15)

Equipment : DEA 41321A

Negative Control Run	No
Sample Prep	Direct.
Remarks	No Remarks

Spectral Result

Constituent	Comments
Methamphetamine Hydrochloride, Isomer Undetermined	---

Exhibit #	Lab Ex #	Lab Exhibit Description	Container
1	1	2 plastic bags, each plastic bag contained white crystalline substances,	SSEE (2161679)

Quantitation : Run # 1 - Set # 1 Blank Analyst: SXHOANG (2022.11.15)
Equipment : DEA 365212, DEA 41313A

Type	Blank
Method	DEA 503/UV-Vis Spectroscopy
Remarks	No Remarks
QC Low Result	N/A
QC High Result	N/A

Quantitation : Run # 1 - Set # 2 Composite sample Analyst: SXHOANG (2022.11.15)
Equipment : DEA 365212, DEA 41313A

Type	Sample
Method	DEA 503/UV-Vis Spectroscopy
Dilution Technique	Volumetric
Sample Prep - Sample Weight (LabX)	158.4 mg
Sample Amount (Instrument)	158.4 mg
Sample Prep - Initial Volume	50 mL
Sample Prep - Volume Transferred	1 mL
Sample Prep - Final Volume	1 mL
Sample Prep - Dilution Factor	50 mL
Dilution Factor	50 mL
Remarks	No Remarks

Quantitation					
Constituent	RT	Area	Height	Width	Purity
Methamphetamine, Isomer & Salt Undetermined		0.0000	0.0000	0.000	96.540
QC Low Result	100.23				
QC High Result	98.85				

Reserve Weight Analyst: SXHOANG (2022.11.15)
Equipment : DEA 365202

Residue?	No
Type of Calculation	No Calculation
Reserve Weight	18.06 g
Remarks	Weighed in a new ziplock plastic bag empty to full.

Description of Reserve Evidence Analyst: SXHOANG (2022.11.15)

Description	White powder contained in a ziplock bag. All original packaging materials contained in a ziplock bag. All ziplock bags were sealed into the original SSEE.
Date Sealed	2022-11-09
Remarks	No Remarks

Gross Weight After Analysis Analyst: SXHOANG (2022.11.15)
Equipment : DEA 365202

Gross Weight After Analysis	44.8 g
Remarks	No Remarks

Case Number: [REDACTED]
LIMS Case Number: 2022-SFL7-04516
DEA-7 Exhibit Number: 1
Lab Exhibit Number: 1

DEA Uncertainty Calculator Worksheet

Direct Net Weight

Chemist:	SXHOANG	LIMS #:	2022-SFL7-04516
Date:	11/8/2022	Laboratory:	Western
Ordno:	1131855	Lab Exhibit #:	1

Direct Weight Measurements

TaskID	Balance #	Weight (Full) (g)	Weight (Empty) (g)
T78050	DEA 365202		3.32
T78050	DEA 365202	21.99	

Total Net Weight (g): 18.67

Uncertainty Factors

Balance (g)	# Events	u(mass)(g)	u(w)(g)
0.01	2	0.060152	0.12030

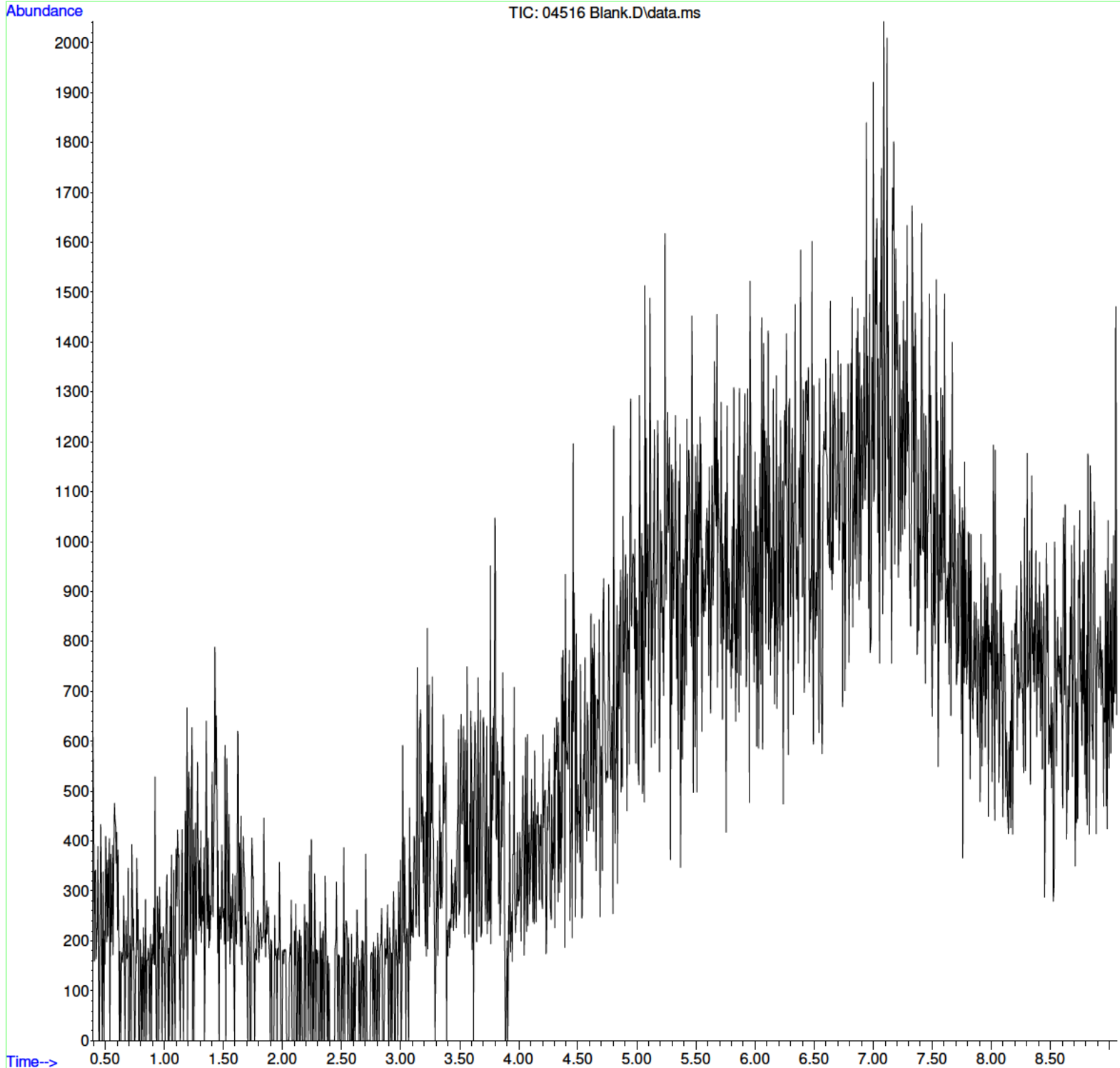
Combined Uncertainty u(w): 0.12030

Expanded Uncertainty U (k = 2) (g): 0.24061

Unit Count:	Avg Net Wt/Unit (g):	+/-
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Net Weight Results

Net Weight:	18.67000 +/-	0.24061 g	Relative U%
Report:	18.6 +/-	0.2 g	1.29



INSTRUMENT CONDITIONS

Temp.: 75°C for 0.5 min

then 40°C/min to 175°C for 0 min

then 30°C/min to 300°C for 1.9 min

Total Run Time: 9.067 min

Inj. port: 280°C, Carrier Gas: H2, Split 60:1, Inj. Volume: 1 µL, transfer line: 280°C

GC column: HP-5ms : 15 m x 250 µm x 0.25 µm film thickness

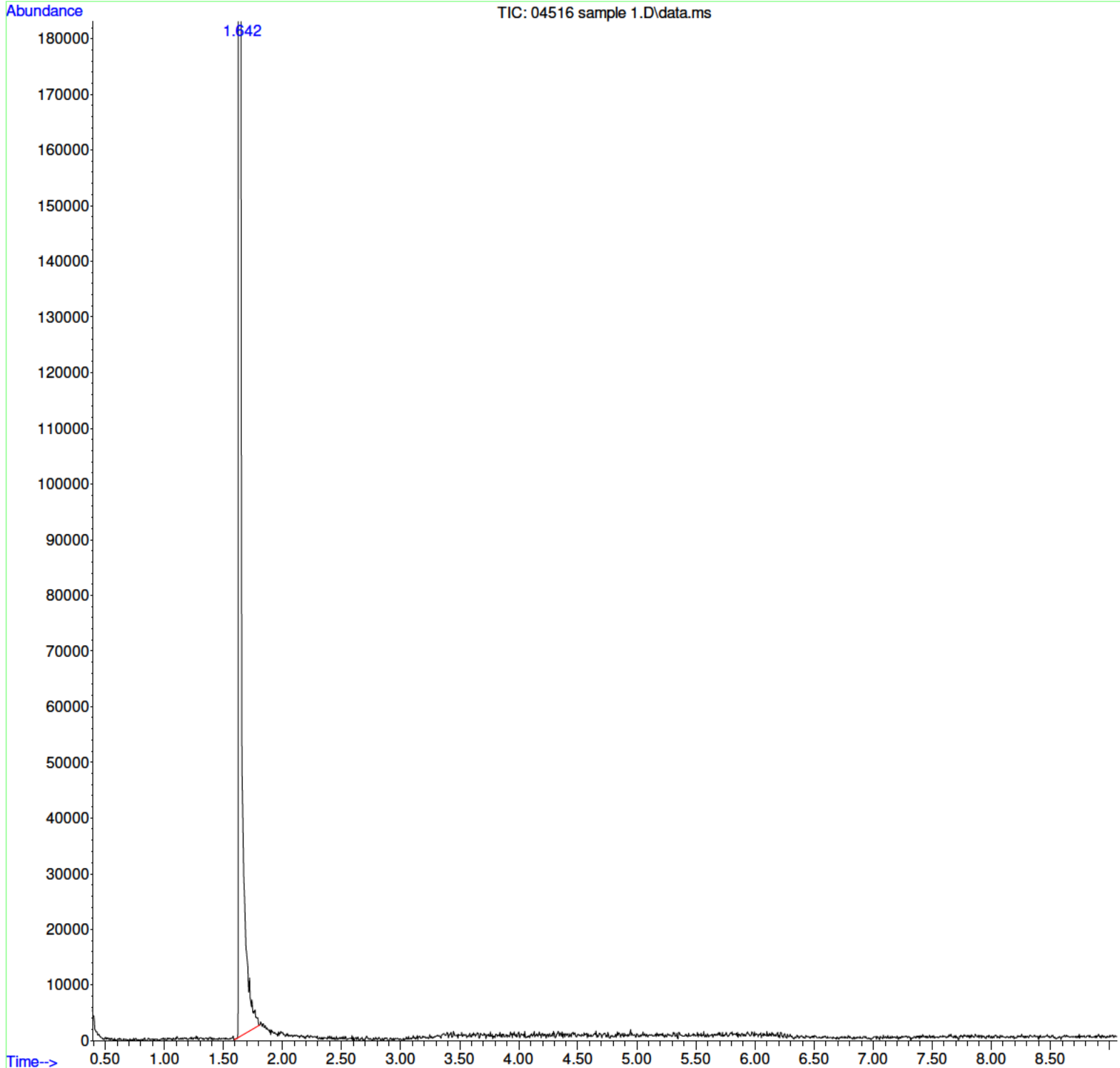
Flow Ramp: 1.9 mL/min for 3 min then 10 mL/min per min to 2.5 mL/min for 0.1 min

Acquired: 08 Nov 2022 16:38 using Method: GCLowXH_MS01.M

Misc Info:

Vial Number: 43

Instrument: DEA365408



INSTRUMENT CONDITIONS

Temp.: 75°C for 0.5 min

then 40°C/min to 175°C for 0 min

then 30°C/min to 300°C for 1.9 min

Total Run Time: 9.067 min

Inj. port: 280°C, Carrier Gas: H2, Split 60:1, Inj. Volume: 1 µL, transfer line: 280°C

GC column: HP-5ms : 15 m x 250 µm x 0.25 µm film thickness

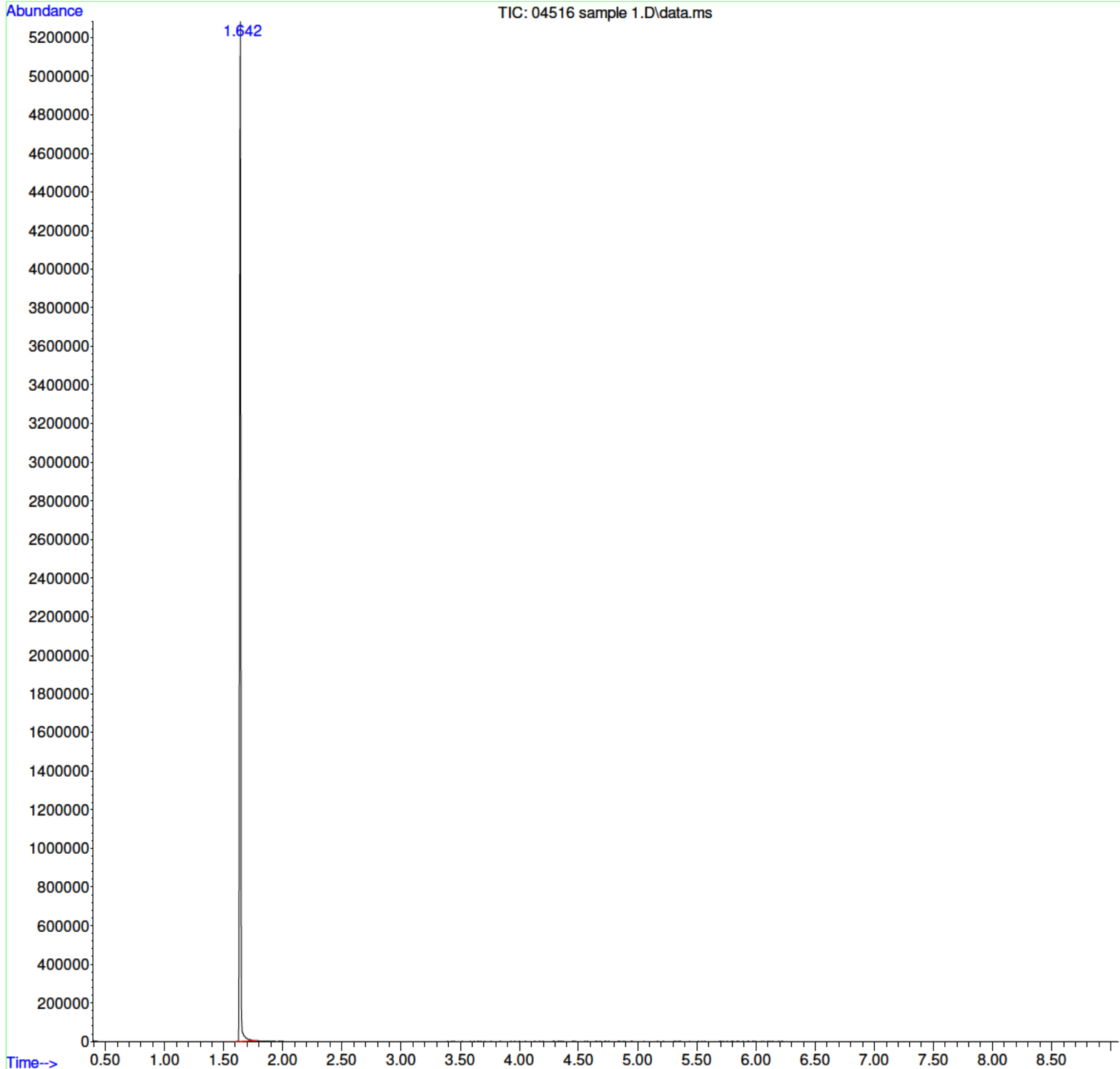
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Acquired: 08 Nov 2022 16:38 using Method: GCLowXH_MS01.M

Misc Info:

Vial Number: 43

Instrument: DEA365408



INSTRUMENT CONDITIONS

Temp.: 75°C for 0.5 min

then 40°C/min to 175°C for 0 min

then 30°C/min to 300°C for 1.9 min

Total Run Time: 9.067 min

Inj. port: 280°C, Carrier Gas: H2, Split 60:1, Inj. Volume: 1 µL, transfer line: 280°C

GC column: HP-5ms : 15 m x 250 µm x 0.25 µm film thickness

Flow Ramp: 1.9 mL/min for 3 min then 10 mL/min per min to 2.5 mL/min for 0.1 min

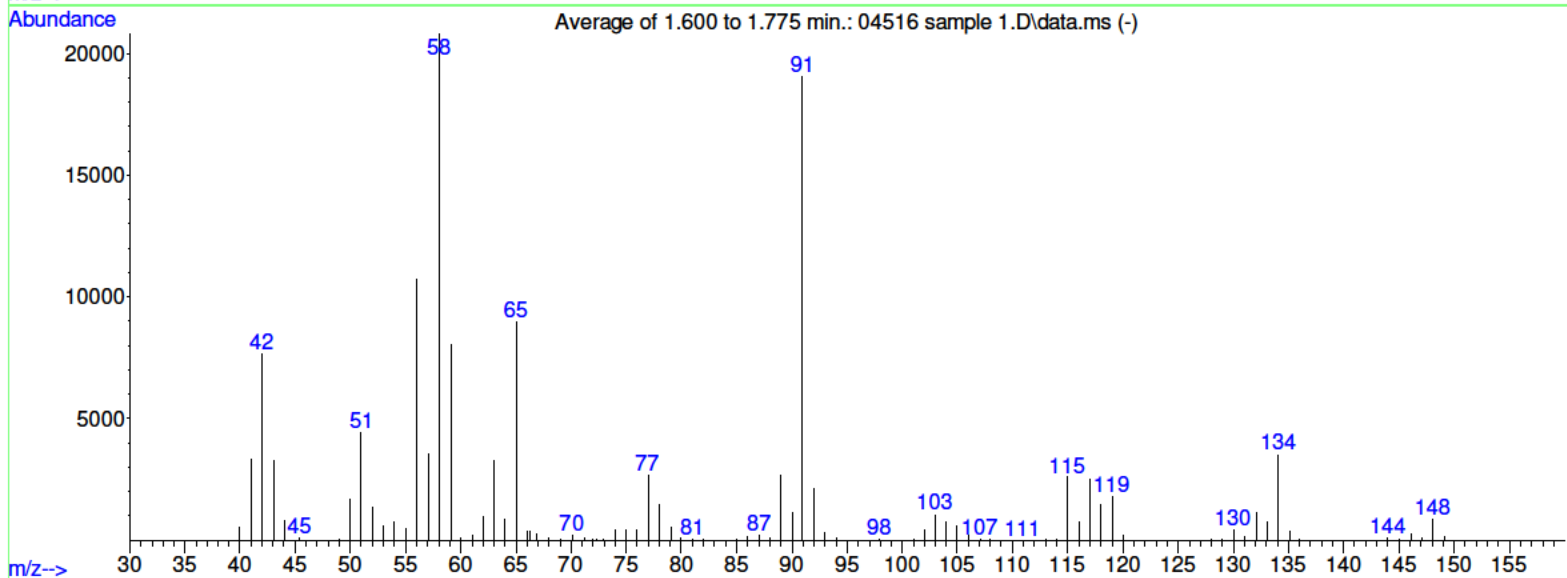
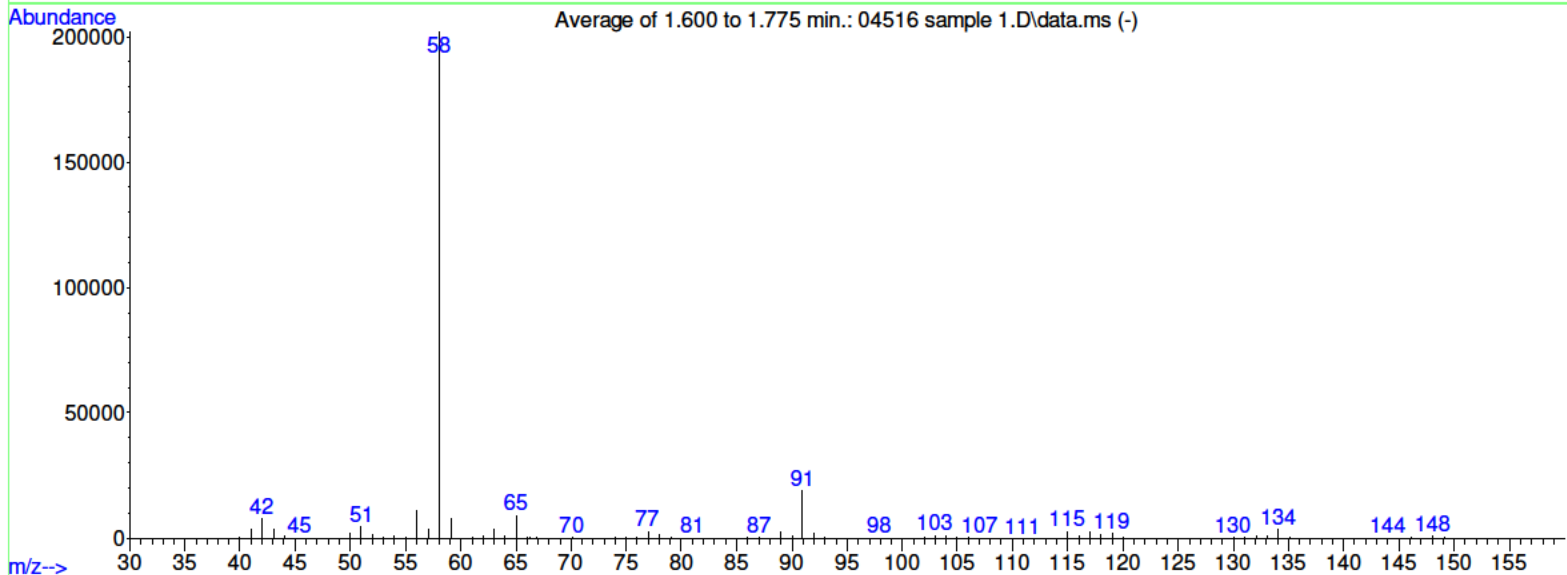
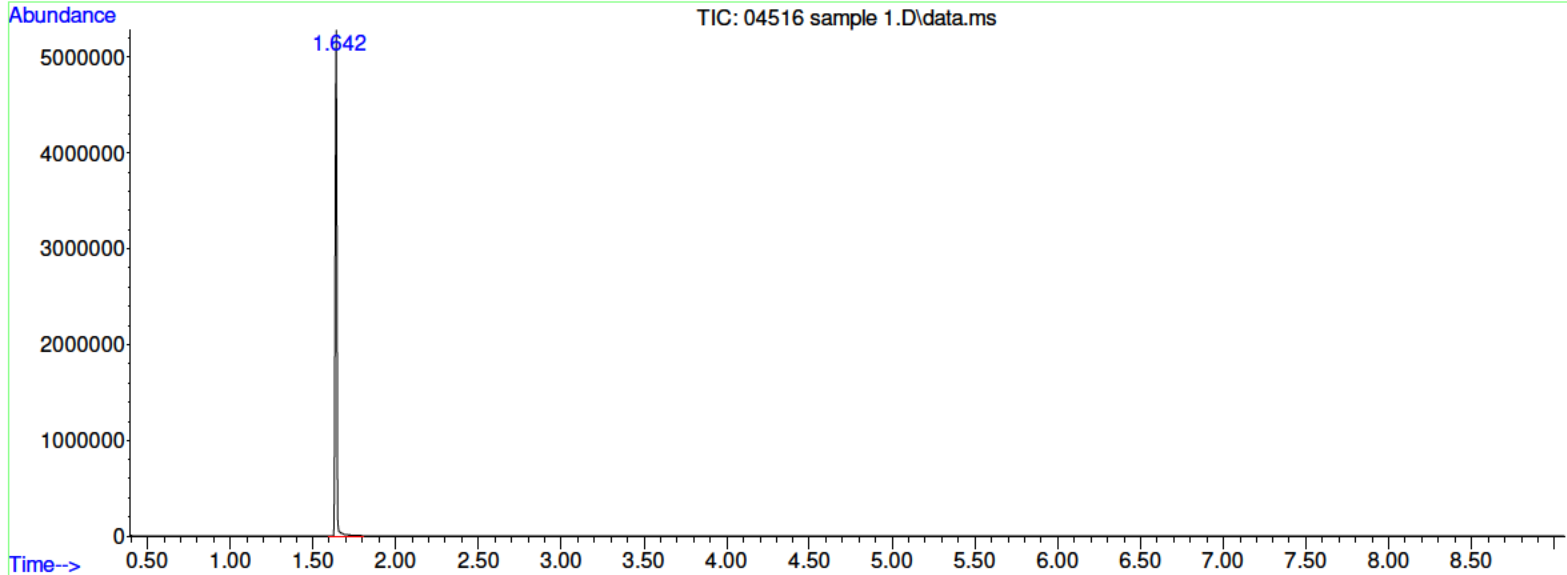
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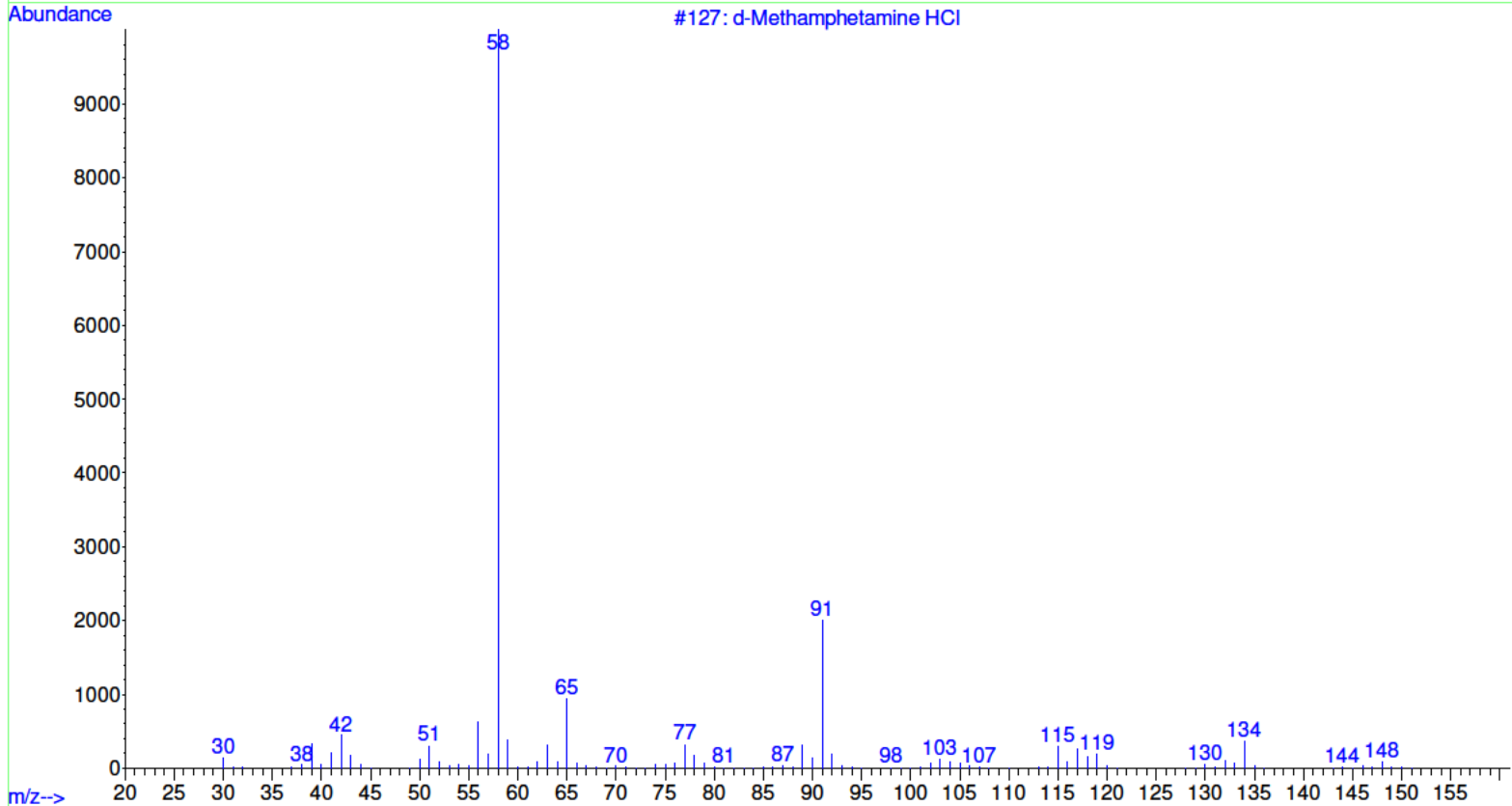
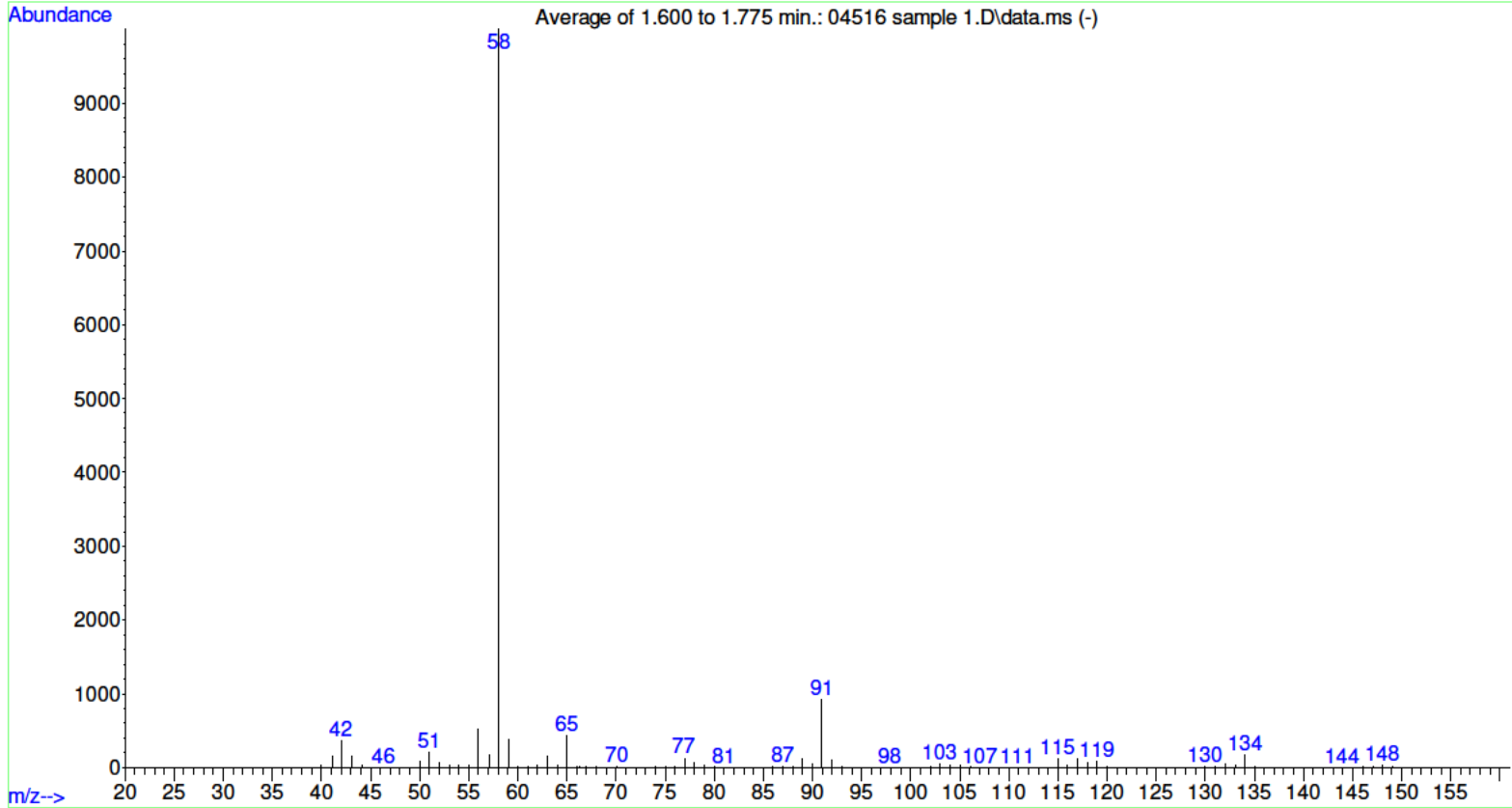
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Sort Number: 246

Vial Number: 43

Instrument: DEA365408



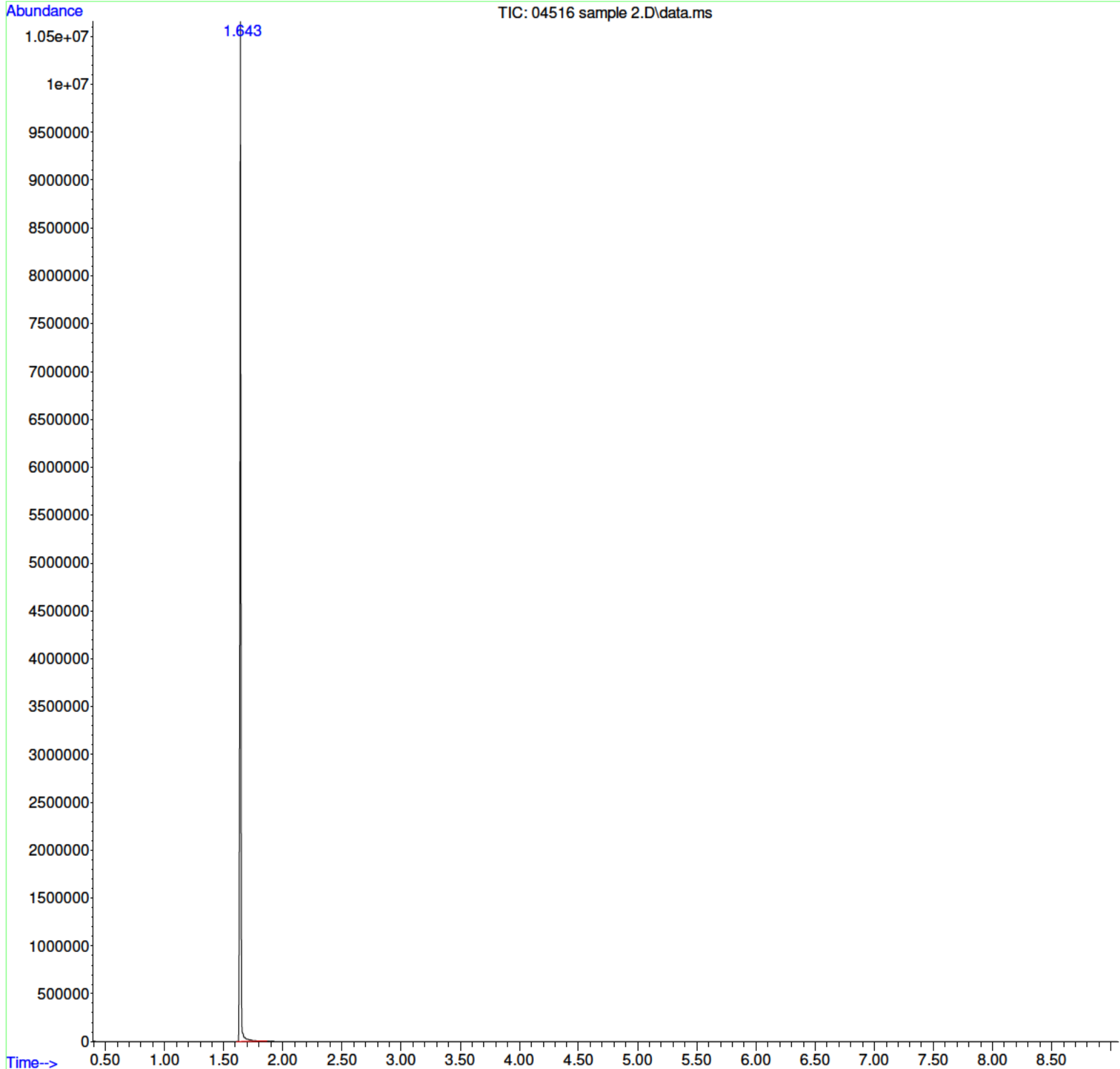


Acquired: 08 Nov 2022 16:49 using Method: GCLowXH_MS01.M

Misc Info:

Vial Number: 44

Instrument: DEA365408



INSTRUMENT CONDITIONS

Temp.: 75°C for 0.5 min

then 40°C/min to 175°C for 0 min

then 30°C/min to 300°C for 1.9 min

Total Run Time: 9.067 min

Inj. port: 280°C, Carrier Gas: H2, Split 60:1, Inj. Volume: 1 µL, transfer line: 280°C

GC column: HP-5ms : 15 m x 250 µm x 0.25 µm film thickness

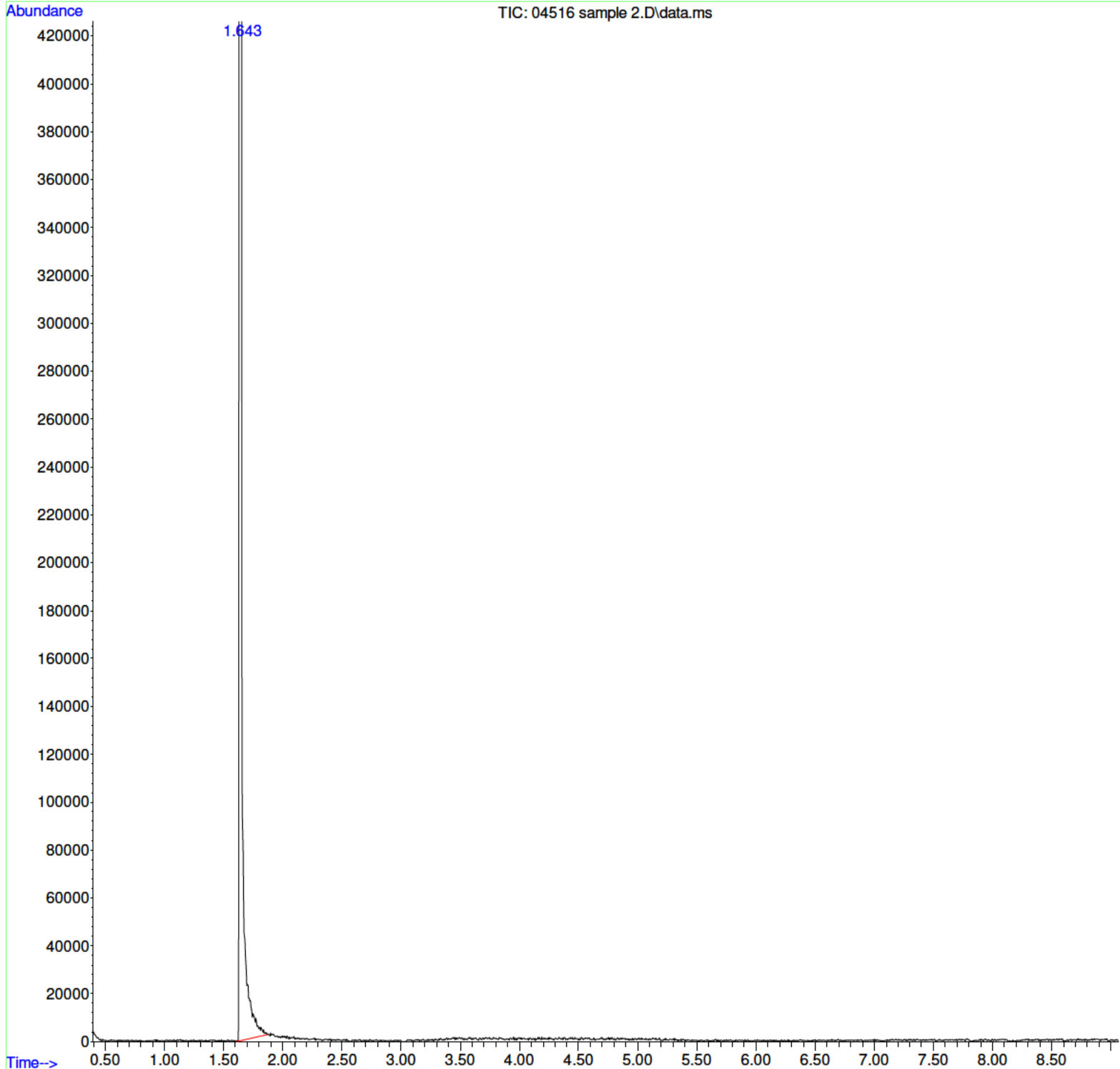
Flow Ramp: 1.9 mL/min for 3 min then 10 mL/min per min to 2.5 mL/min for 0.1 min

ID: 2022-SFL7-04516-1,1,1131855,601,1,3

Misc Info:

Date: 08 Nov 2022 16:49

Exhibit 2D-12



INSTRUMENT CONDITIONS

Temp.: 75°C for 0.5 min

then 40°C/min to 175°C for 0 min

then 30°C/min to 300°C for 1.9 min

Total Run Time: 9.067 min

Inj. port: 280°C, Carrier Gas: H2, Split 60:1, Inj. Volume: 1 µL, transfer line: 280°C

GC column: HP-5ms : 15 m x 250 µm x 0.25 µm film thickness

Flow Ramp: 1.9 mL/min for 3 min then 10 mL/min per min to 2.5 mL/min for 0.1 min

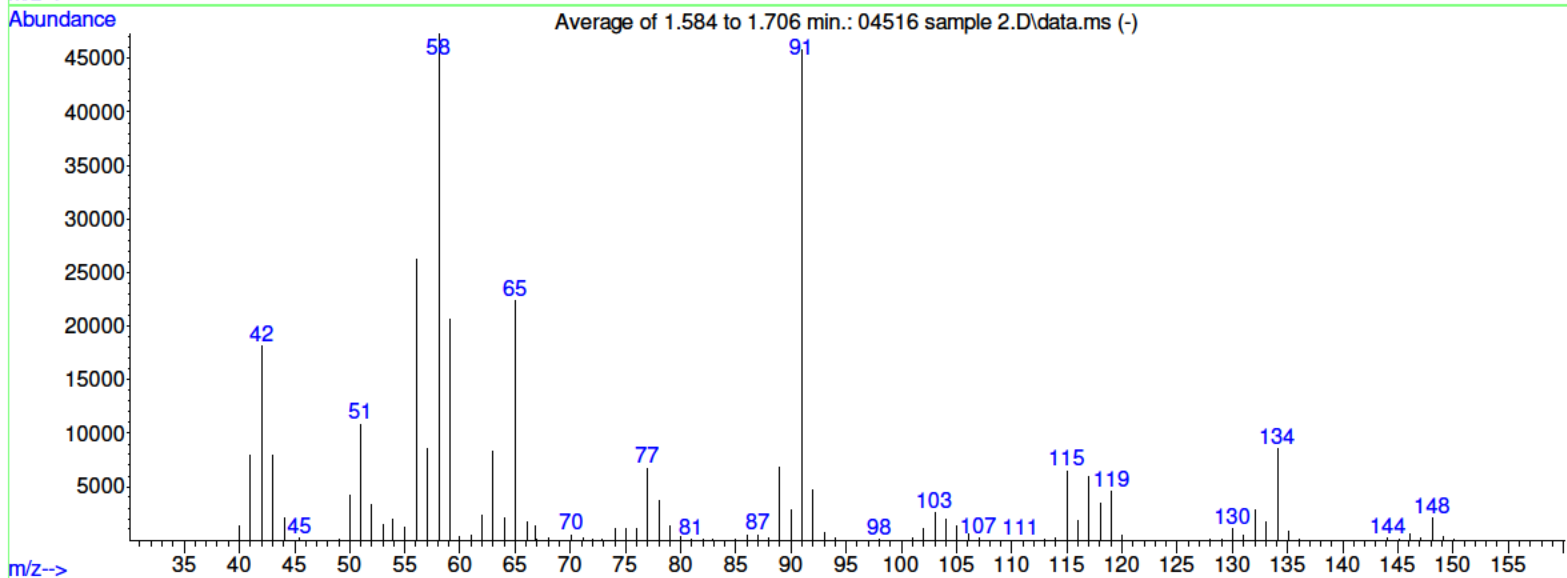
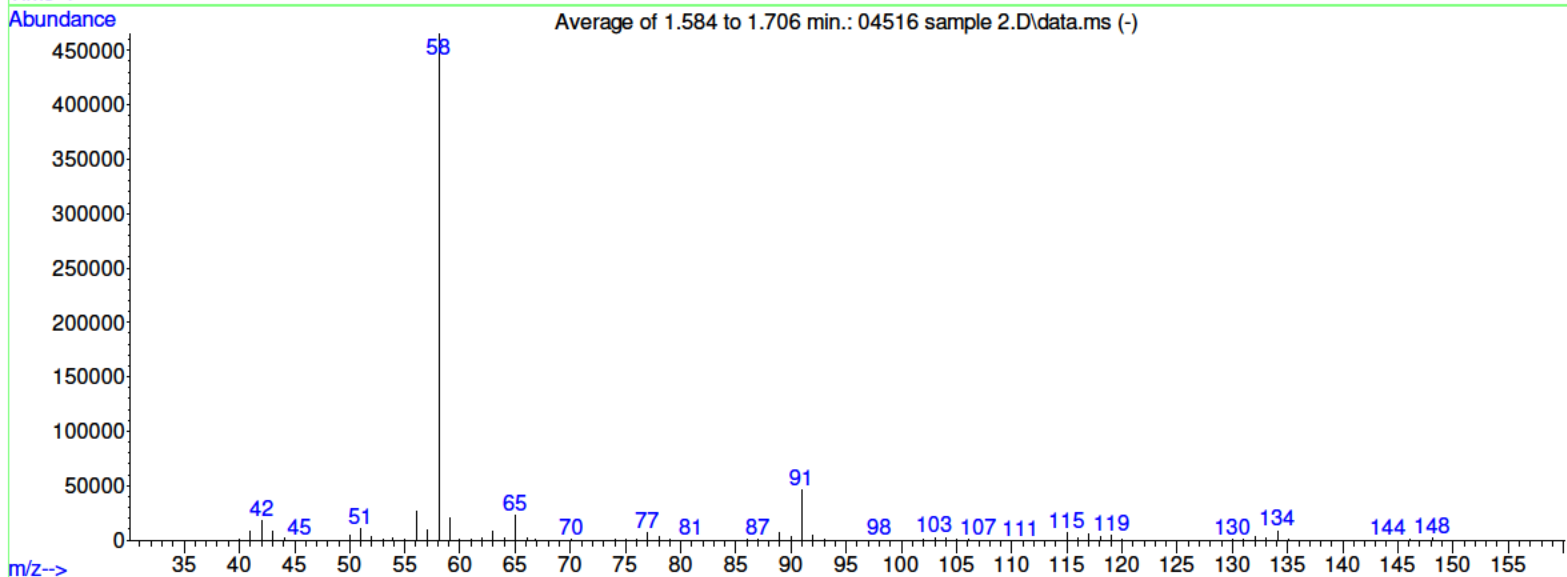
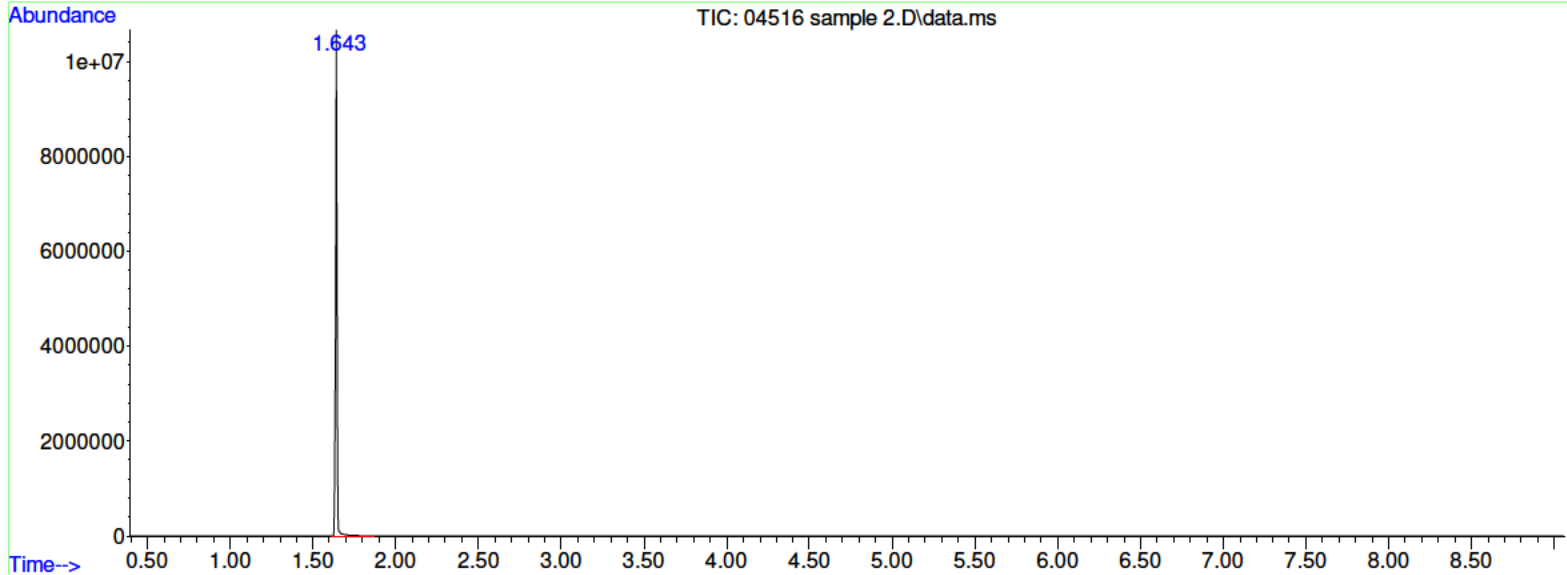
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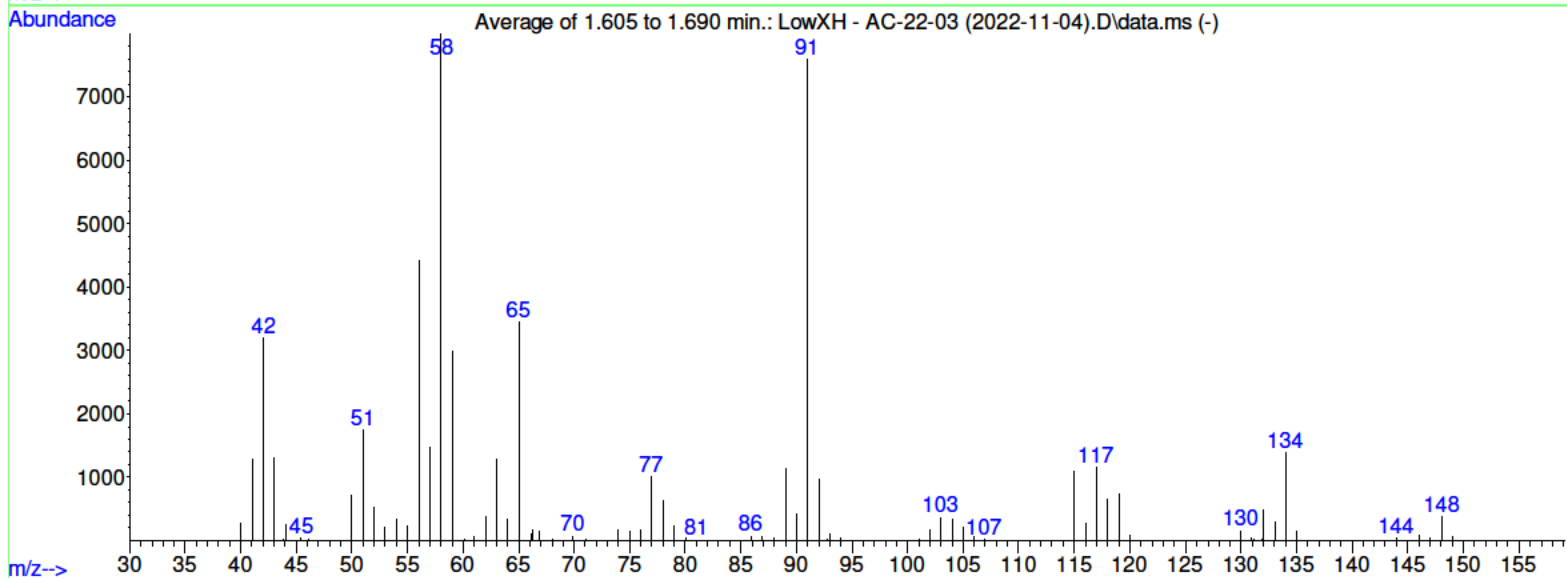
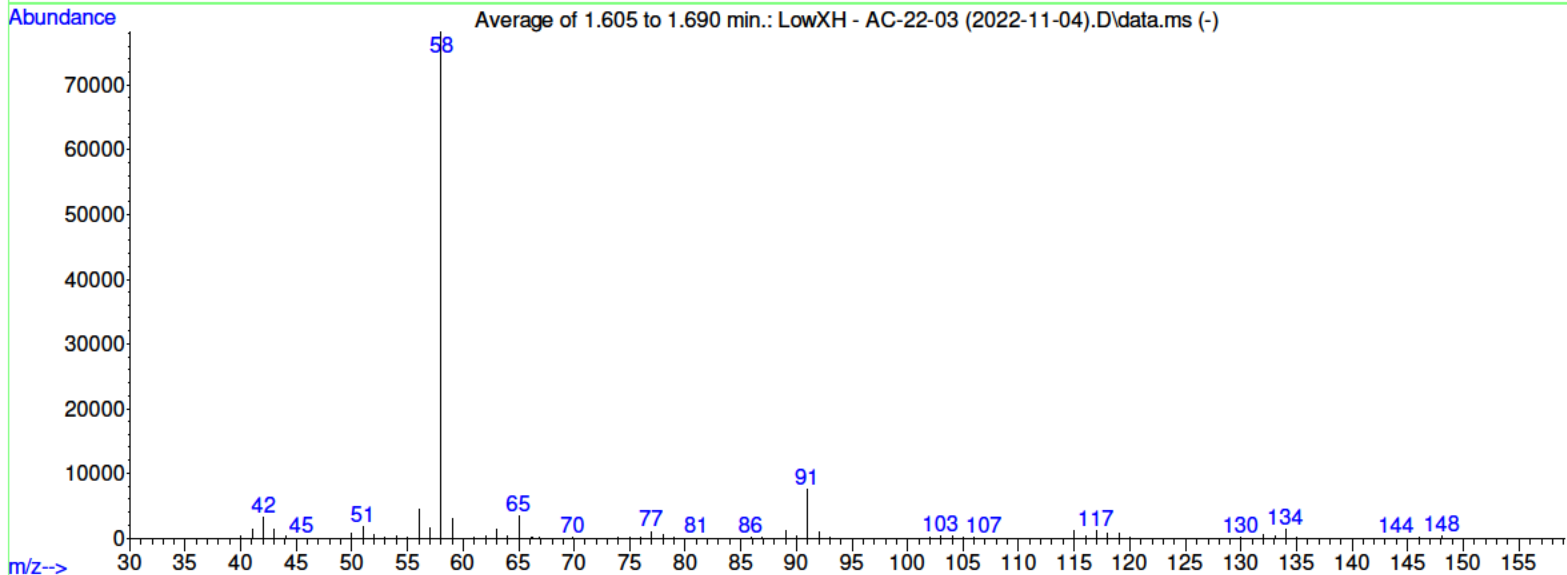
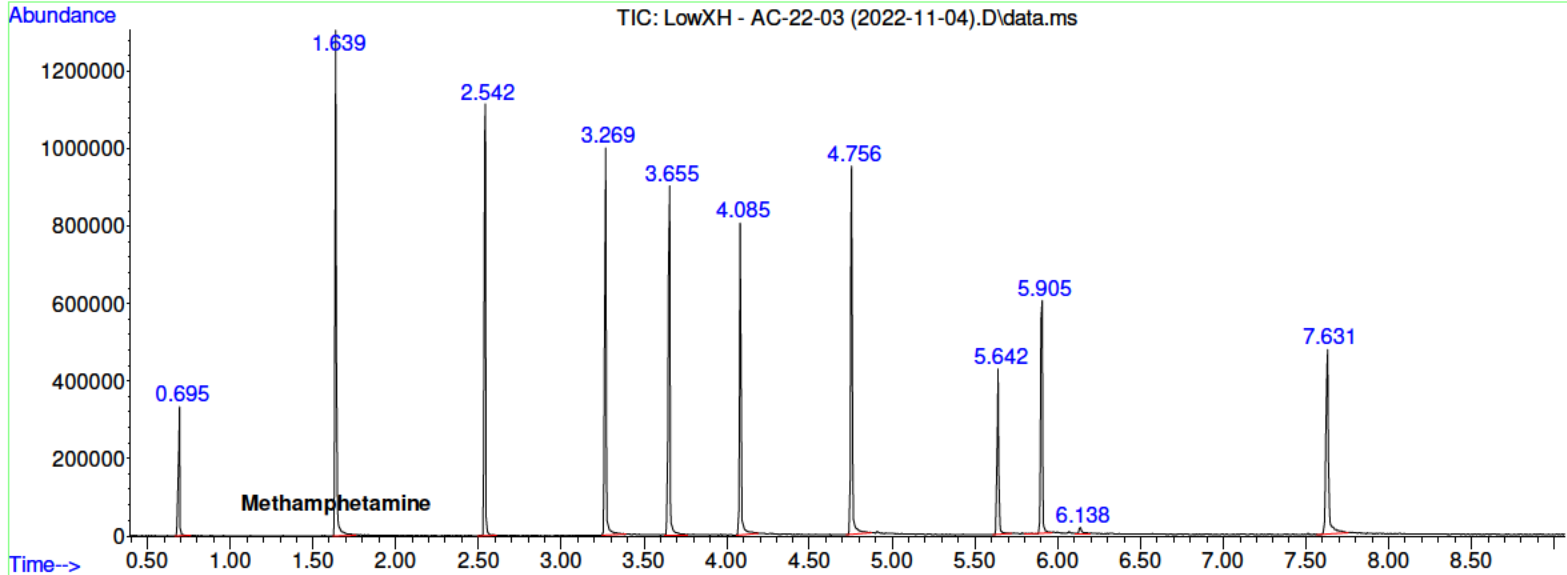
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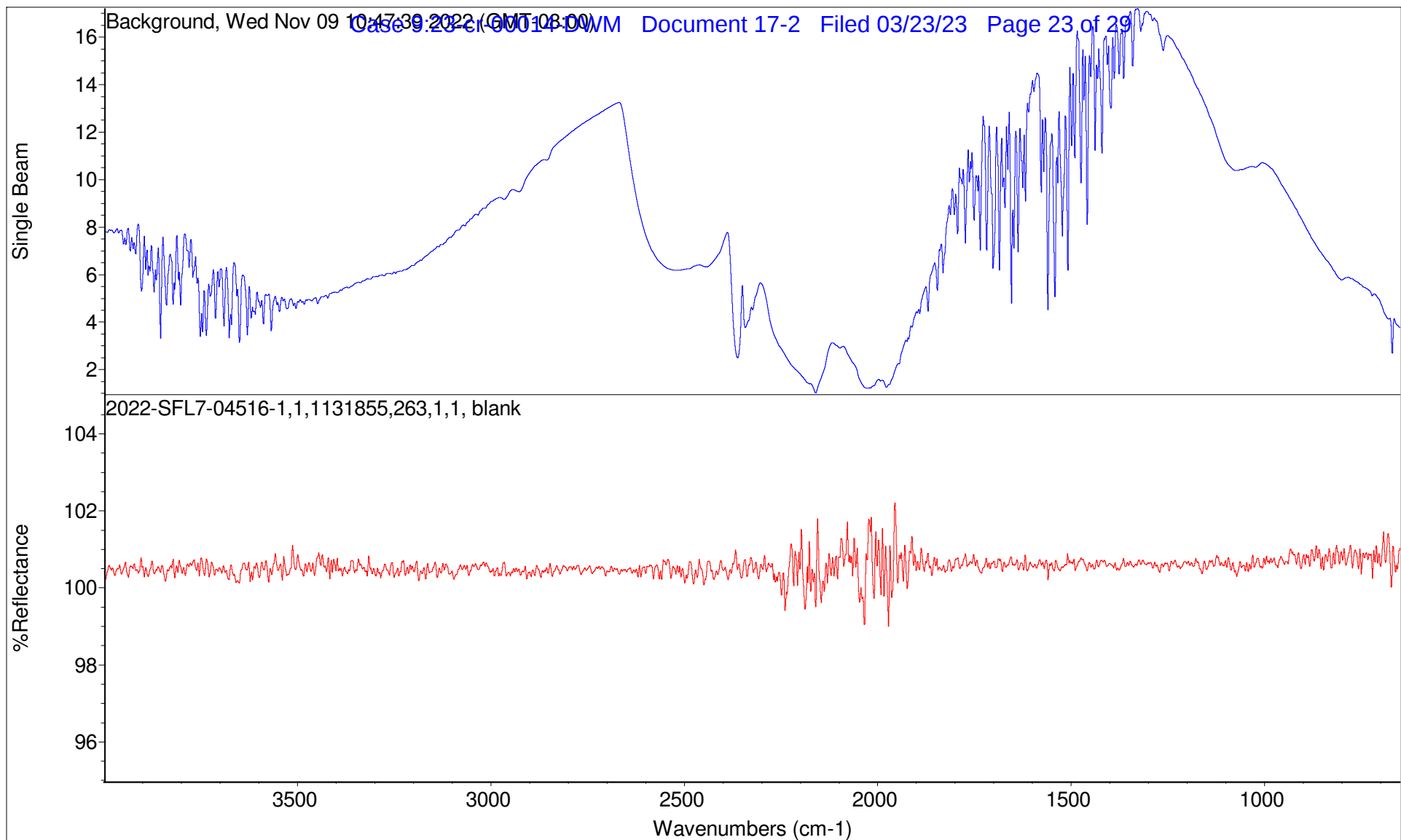
Sort Number: 238

Vial Number: 44

Instrument: DEA365408



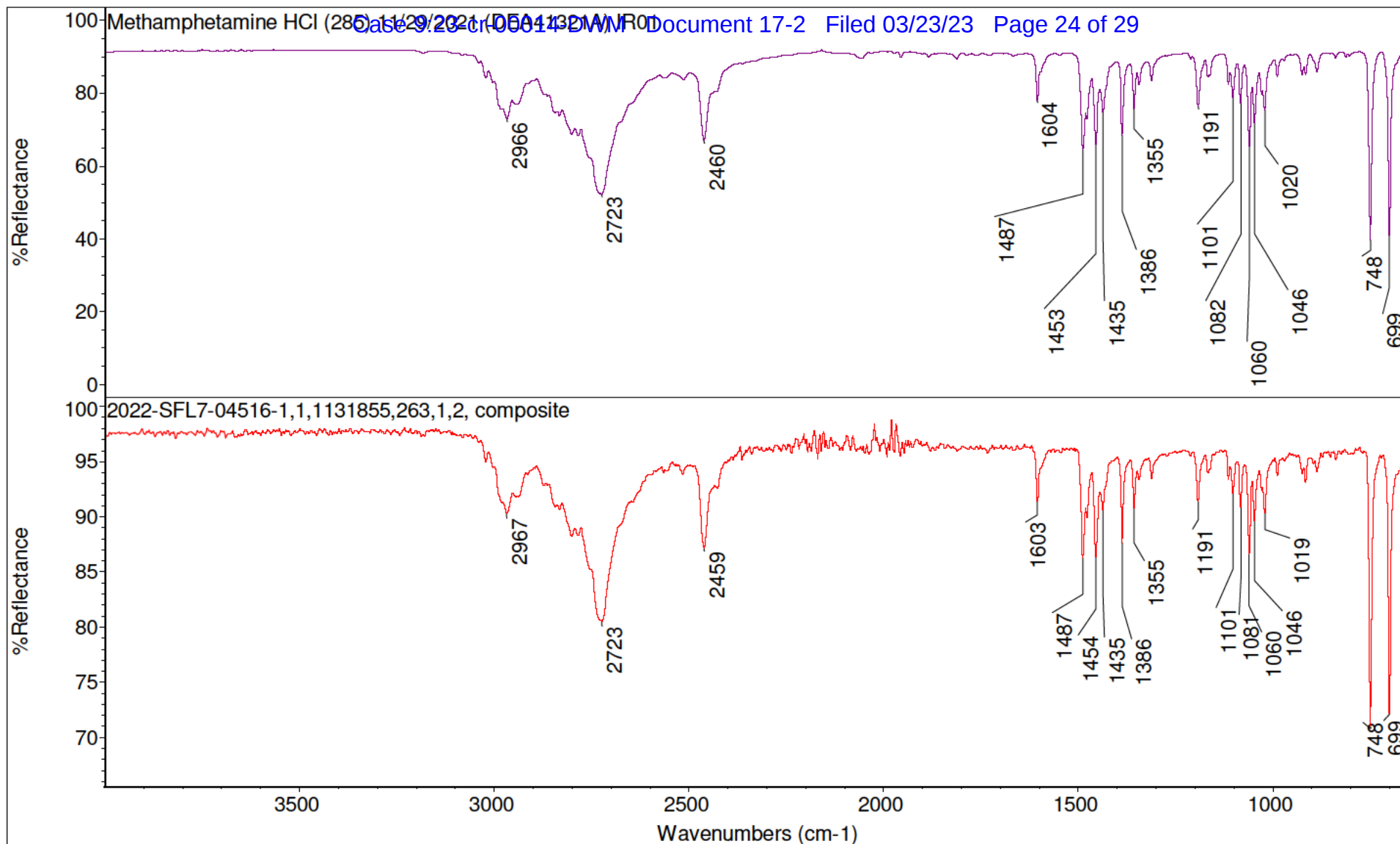




Number of sample scans: 8
Number of background scans: 8
Resolution: 4.000
Sample gain: 4.0
Optical velocity: 0.4747
Aperture: 150.00

Collection time: Wed Nov 09 10:48:39 2022 (GMT-08:00)
ID: 2022-SFL7-04516-1,1,1131855,263,1,1, blank
DEA#: 41321A
Laboratory: Western Laboratory

IR01



Number of sample scans: 8
 Number of background scans: 8
 Resolution: 4.000
 Sample gain: 4.0
 Optical velocity: 0.4747
 Aperture: 150.00

Collection time: Wed Nov 09 10:50:22 2022 (GMT-08:00)
 ID: 2022-SFL7-04516-1,1,1131855,263,1,2, composite
 DEA#: 41321A
 Laboratory: Western Laboratory

IR01

11/9/2022 2:35:54 PM
DEA41313A Western Laboratory

Page 1 of 2

Methamphetamine Purity Results

Operator: Son Hoang
Date: 11/9/2022
Time: 2:35:29 PM

Method: DEA 503/UV-Vis Spectroscopy

Shell Version: 062122

Instrument: Agilent Cary 60 UV/Vis Spectrophotometer
Configuration: Multi-cell
Signal Averaging Time (SAT): 0.5 sec
Number of Replicates Averaged: 5

LIMS Number: 2022-SFL7-04516

Sample Information: 158.4 mg in 50 mL of DI water

Sample ID	Abs Rd 1	Abs Rd 2	Abs Rd 3	Abs Rd 4	Abs Rd 5	Ave. Abs@267 nm	% RSD	Conc(mg/mL)	Time Stamp
QC Low	0.7841	0.7938	0.7959	0.7977	0.7910	0.7925	0.67	1.866	2:35:31 PM
Blank	0.0001	0.0001	0.0001	-0.0000	-0.0000	0.0000	140.00	-0.105	2:35:37 PM
Sample	1.2714	1.2760	1.2607	1.2691	1.2827	1.2720	0.64	3.058	2:35:44 PM
QC High	1.8864	1.8954	1.8874	1.8912	1.9000	1.8921	0.30	4.601	2:35:50 PM

Weight of Sample: 158.40 mg
Volume of Sample: 50.00 mL

Purity of Methamphetamine in Sample = 96.54 %

Purity of Methamphetamine in Blank = -0.01 %

Concentration of Methamphetamine in QC Low = 1.8616 mg/mL
Result of QC low = 100.23 %

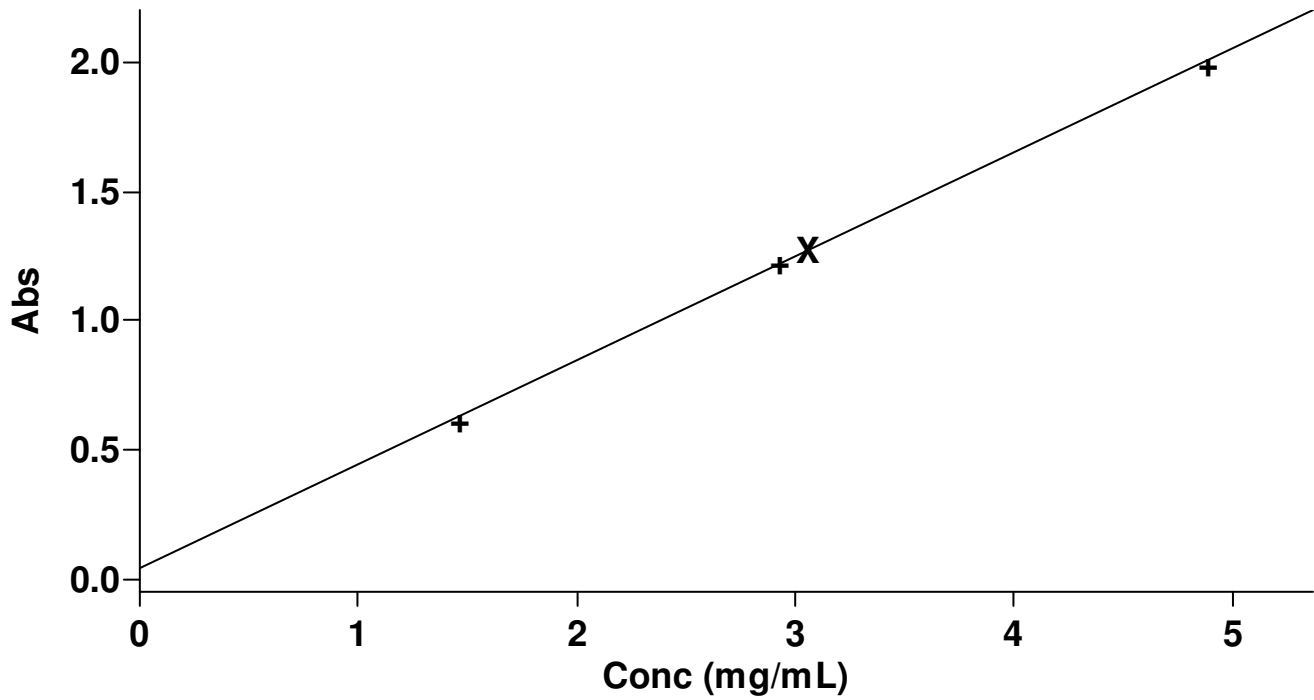
Concentration of Methamphetamine in QC High = 4.6540 mg/mL
Result of QC high = 98.85 %

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Exhibit 2D-18

11/9/2022 2:35:54 PM
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Calibration Date/Time: 9/22/2022 3:48:40 PM

Calibration Equation: $Y = 0.4021 * X + 0.0422$
Correlation Coefficient = 0.9999

Number of Standards Used for Calibration = 3

Standard Concentration (mg/mL) Standard 1 = 1.464
Standard Read Average (abs) Standard 1 = 0.6237084

Standard Concentration (mg/mL) Standard 2 = 2.9279
Standard Read Average (abs) Standard 2 = 1.231992

Standard Concentration (mg/mL) Standard 3 = 4.8799
Standard Read Average (abs) Standard 3 = 1.999036

LIMS Number: 2022-SFL7-04516

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Drug Enforcement Administration

Weight Report



Case Information

Reference Material	Methamphetamine HCl
Lot Number/Inventory ID	1527
Solvent	water
Glassware UniqueID	CJ36831
Flask Volume Selection	25 mL
Date Prepared	09/22/2022

LabX Method Used

Method Name: Quant Standard

LabX Task ID

Task ID: T83369

Weighing Result

Weighing Event: Purity of Reference Material	Result	98.60 %
Weighing Item Number:		
Weighing Event: Weight of Standard	Result	123.73 mg
Weighing Item Number:		
Weighing Event: Final Concentration of Reference Material Solution (Corrected for Purity)	Result	4.8799 mg/mL
Weighing Item Number:		

Balance Used

Balance ID: DEA 365291
Balance Type: XP205

Drug Enforcement Administration

QC Solution Preparation Report



Sample Information

Date of High and Low Solution Preparation	10/04/2022
Prepared By:	Misa Mar
Quality Control (QC) Sample ID	QCMET01B1
Target Analyte	Methamphetamine Hydrochloride
Solvent	Other
Solvent Used	DI Water
QC High Solution ID	QC High 5/25/22
Total Volume of High QC Solution	200 mL
QC Low Solution ID	QC Low 5/25/22
Total Volume of Low QC Solution	50 mL
Low QC Preparation Method	Serial Dilution

LabX Method Used

Method Name: QC Soln(SFL1)

LabX Task ID

Task ID: T84188

Weighing Result

Purity of QC Sample	Result	98.07 %
Weight of High QC Sample	Result	949.12 mg
Total High QC Solution Concentration	Result	4.7456 mg/mL
Target Analyte Concentration for High QC Solution (Corrected for Purity)	Result	4.6540 mg/mL
Serial Dilution Volume for Low QC Solution	Result	20.00 mL
Total Low QC Solution Concentration	Result	1.8982 mg/mL
Target Analyte Concentration for Low QC Solution (Corrected for Purity)	Result	1.8616 mg/mL

Drug Enforcement Administration QC Solution Preparation Report



Balance Used

Balance ID:	DEA 365291
Balance Type:	XP205